

MODEL 377

Low Range (0-3" to 0-8" WCD) Wet/Wet Differential Pressure Transmitter



(E

377 (o-3" to o-8" WCD)
WET/WET DIFFERENTIAL
PRESSURE TRANSMITTER

Features

- Single Diaphragm for Precision
- Fast response
- External Zero & Span Adjustments
- 500 PSI overpressure
- Shunt calibration circuit

Applications

- Leak testing
- Flow measurement
- Engine test stands
- Research
- High speed testing
- Unidirectional or Bidirectional

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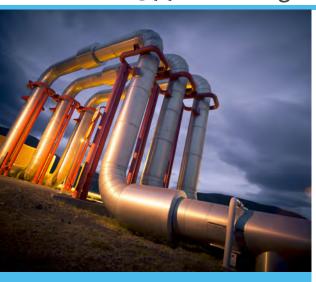
PERFORMANCE

Full Scale Pressure Ranges (FSPR)	0 -3, 0-8" WC
Combined Accuracy	≤±0.6% RSS
(Non-Linearity (BFSL),Hysteresis & Re	peatability)
Full Scale Output (FSO)	16.00 mA ±1% FSO @70°F
Resolution	Infinite
Zero Shift w/Line Pressure (%FSO/500 PSI)	≤±2%
Zero Shift After 500 PSI Overload	Single Side ≤±0.5% FSO
	Alternate Sides ≤ ±0.5% FSO
Compensated Temperature Range	70°F to +170°F (21°C to 77°C)
Operating Temperature Range	0°F to +185°F (-20°C to +85°C)
Storage Temperature Range	-40°F to +185°F (-40°C to +85°C)
Thermal Effect on Zero	≤ 2.0% FSO per 100°F
Thermal Effect on Span	≤ 2.0% FSO per 100°F

ELECTRICAL

Supply Voltage	9-30 VDC	
Power Supply Regulation	± .02% FSO per volt (Typical)	
Output Signal	4-20 mA	
Load Impedance	1000 ohms maximum @ 30 VDC decreasing linearly to 0 ohms @ 9 VDC	
Zero Adjustment	±5% FSO min./ ±50% FSO max.	
Span Adjustment	±5% FSO min./ ±50% FSO max.	
Range Calibration Signal	80% FSO ±10% by shorting pins C&D	
Calibration Signal Accuracy	≤±1.0%	
Circuit Protection	Reverse polarity protected	
Insulation Resistance	< 5 nS to case ground	
Standard Electrical Connection	Mates with 6 pin, Hermetic, Box Mount, Shell Size 10, MIL-C-26482 bendix type connector	
Pin Outs	Pin A	+ Signal / Power
	Pin B	- Signal / Power
	Pin C	Shunt Cal
	Pin D	Shunt Cal
	Pin E	No Connection
	Pin F	No Connection

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The Value of Viatran to Your Operation

 Viatran value is measured in maximum reliability and minimal repair, unlike products that result in less durability and more downtime for replacement.
 Viatran value is worth your investment for the long run:

6 PRODUCTS

50 years of proven solutions

TECHNICAL SUPPORT

Expert problem solvers

6 CUSTOMER SERVICE

Fast, friendly and honest

MECHANICAL

1/4" NPT Female 500 PSI maximum	
500 PSI single sided	
1100 PSI	
0.1 mL at FSPR	
< 0.4 cubic inches, each side	
1.5 cubic inches	
May be supported by process piping or by optional mounting bracket.	
Consult Engineering	

MATERIALS OF CONSTRUCTION

Wetted Materials	316 stainless steel and Viton O-Ring
Enclosure Material	304 and 316 stainless steel
Identification	Laser marked on body of unit
Weight	3.5 lbs. (6.5 lbs. with optional flanges)

OPTIONS

B()	Alternate electrical connector
DG	Improved temperature compensation
DH	Special Range
DK	Special calibration setting
DW	No external adjustments
EA	Special Calibration Run
GE	Buna 'N' O-Rings
NB	Alternate process flanges
NH	Customer specific identification
PW	Calibration of Meter w/Viatran unit
Y()	Alternate pressure ports
Z()	Alternate electrical connector

Note: Application of some available options may affect standard performance. Consult Viatran Application Engineers for details.

Information is accurate to the best of Viatran's knowledge. We reserve the right to change specifications at any time. Please contact Viatran for specific order inquiries.

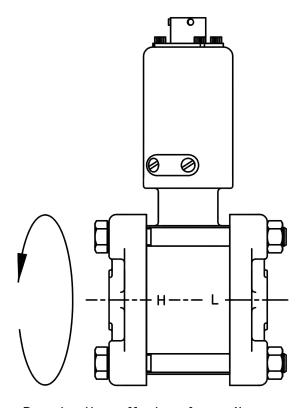


MODEL 377 Solutions custom-fit to your application

MOUNTING

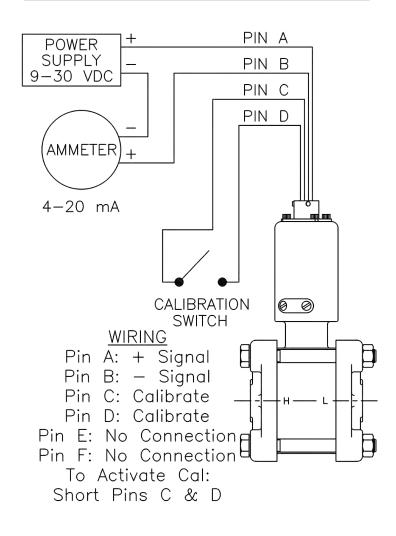


Example of Model 377 mounted in spray booth application.



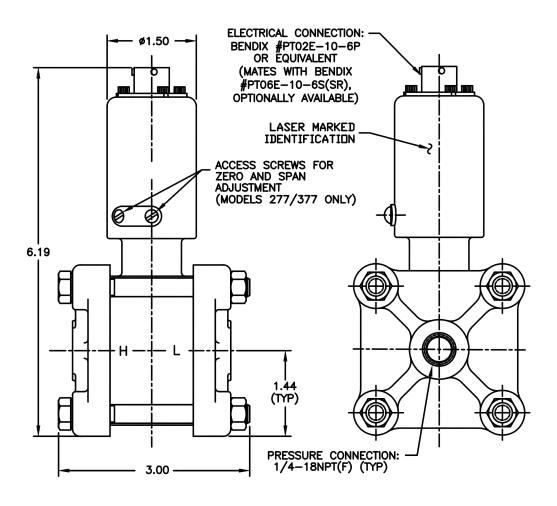
Due to the effects of gravity on the oil fill of the sensor, it's recommended that the product be mounted as shown

WIRING CONNECTIONS



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DIMENSIONAL DATA



ACCESSORIES

Web: www.viatran.com

Mounting Brackets
Digital Indicator
Panel Meter
Mating Electrical Cable Assembly





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